

NASA Launch Services

SMEX AO Pre-Proposal Conference Feb 21, 2003

Norman Beck NASA/KSC/ Launch Services Program Planning Office



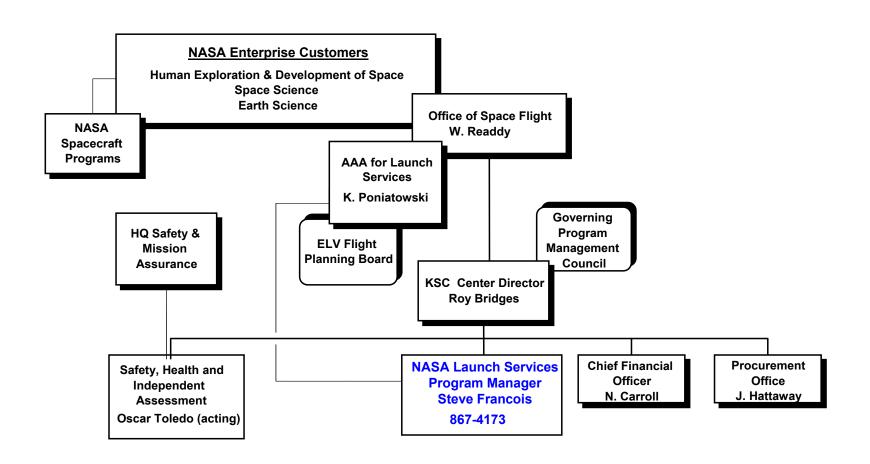
NASA ELV Program Goals

- Ensure launch service contracts are in place to support approved NASA missions
- Provide Program Management (budget, schedule, and technical) for NASA missions utilizing ELV Launch Services
- Provide a successful launch rate at or above 95 percent
- Procure commercial launch services consistent with mission criticality and procurement regulations
- Serve as Agency focal point and repository for ELV databases and advanced mission analyses
- Implement partnerships with other NASA Centers, academia, and industry to create new technological capabilities for lower costs and more reliable access to space



NASA Launch Services Program Organization

John F. Kennedy Space Center



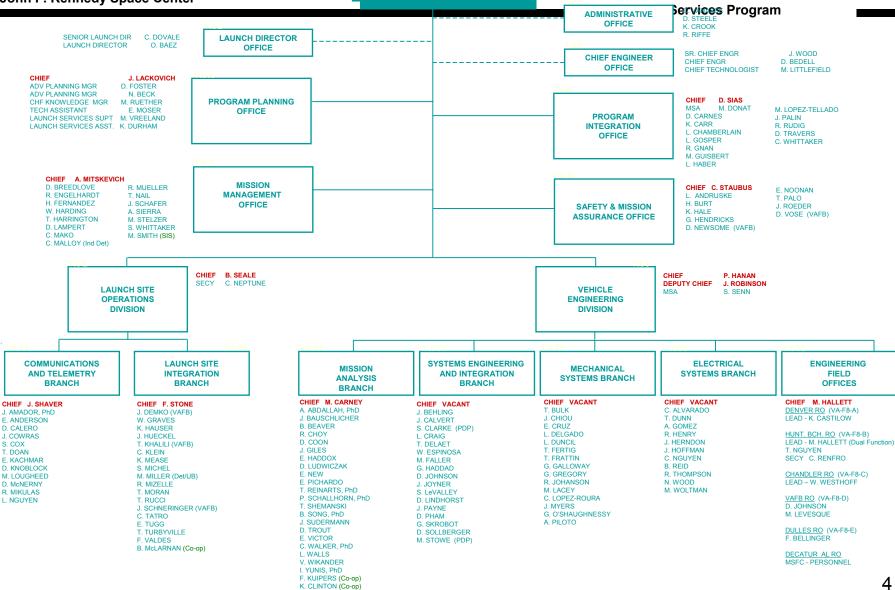
LAUNCH SERVICES PROGRAM OFFICE

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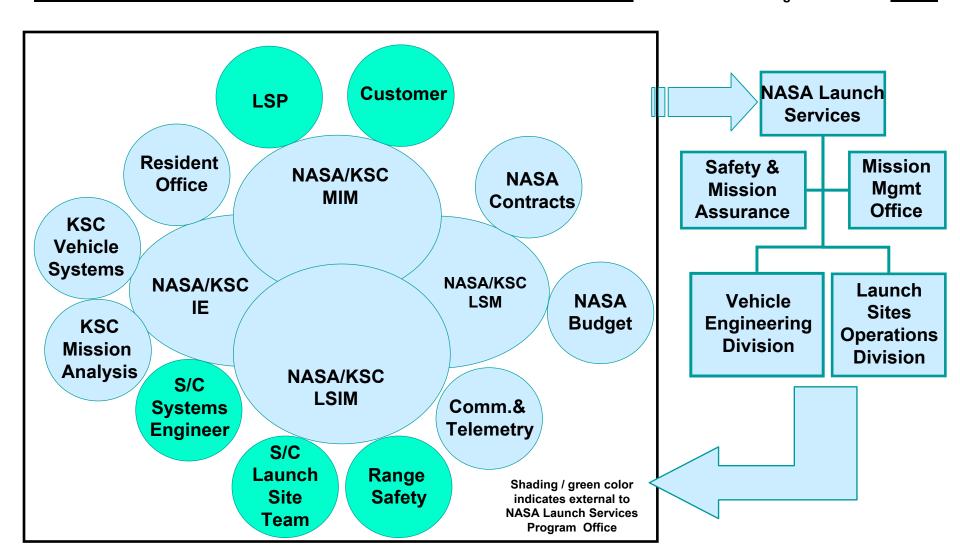




Mission Integration Teams

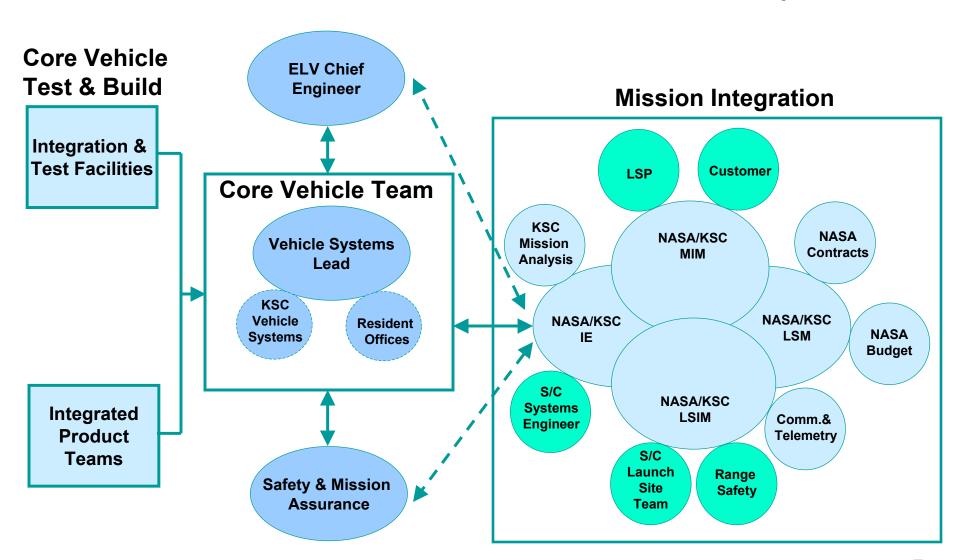


Mission Integration Team (MIT)





Technical Information flow into the MIT





ELV Advance Mission Planning/Design Support

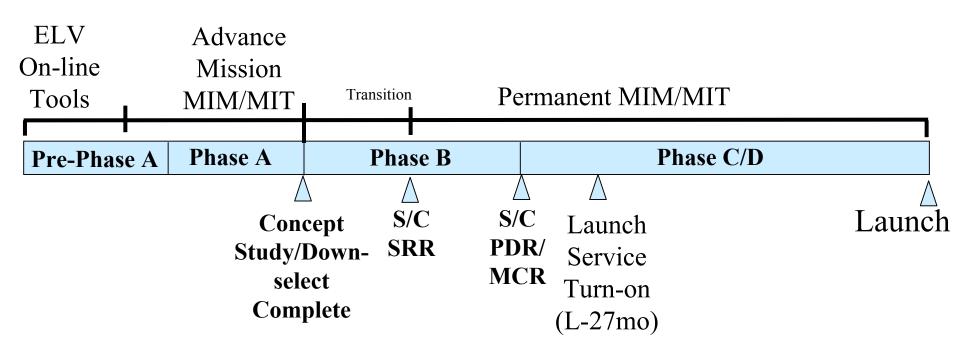


Advance Mission Planning/Design

- Advance Planning Team Norman Beck-321-476-3617
 - Mission Management office Amanda Mitskevich
 - Integration Engineering Jim Robinson
 - Mission Analysis Mike Carney
 - Program Integration Office- Dave Sias
- Provide a Focal Point into the NLS Program
 - Customer Relations and Future Business Development
- Support to Mission Formulation Team in performing LV trades
 - Cost & Performance Quotes
 - Directed Missions
 - Potential Missions
 - Agency Initiatives
- AO development, consultation, and evaluation
- Support to Independent Assessment Review Teams
- Work with the Launch Service Providers
 - Future Business
 - Advance Mission Studies
- Development/maintenance of on-line tools
 - ELV Performance Web page
 - On-line Planner's Guide



KSC ELV Involvement in Your Mission





Launch Services Contracts



Contracts

Launch Services Program

KSC Issued Launch Service Contracts

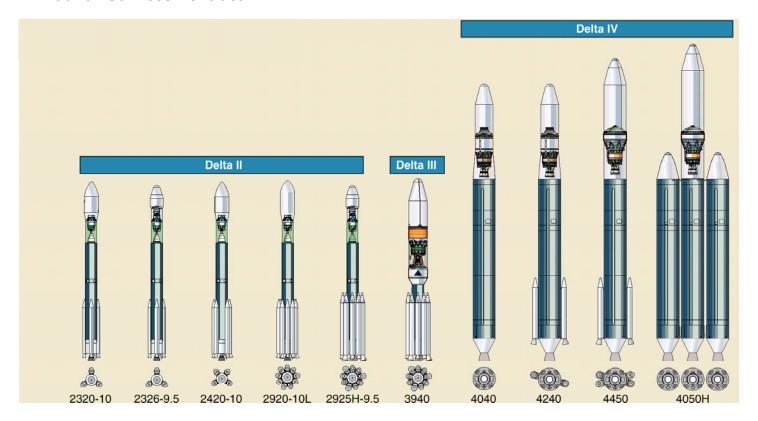
- SELVS-KSC CONTRACT: Small Expendable Launch Vehicle Services, NAS10-99005
 - Launch Service Contractor: Orbital Sciences Corporation
 - Type of Launch Service: Pegasus XL, Taurus
- SELVS-KSC CONTRACT: Small Expendable Launch Vehicle Services, NAS10-99010
 - Launch Service Contractor: Coleman Research Corporation, Coleman Aerospace Co.
 - Type of Launch Service: LK-0
- NLS CONTRACT: NASA Launch Services (NLS), NAS10-00-001
 - Launch Service Contractor: Delta Launch Services, Inc. (Boeing)
 - Type of Launch Service: Delta II, III, and IV
- NLS CONTRACT: NASA Launch Services (NLS), NAS10-00-060
 - Launch Service Contractor: Lockheed Martin Commercial Launch Services, Inc.
 - Type of Launch Service: Atlas III and V



Boeing Delta Launch Services

Launch Services Program

 The Boeing Delta II, Delta III and Delta IV family of launch vehicles are provided by the NASA Launch Services Contract



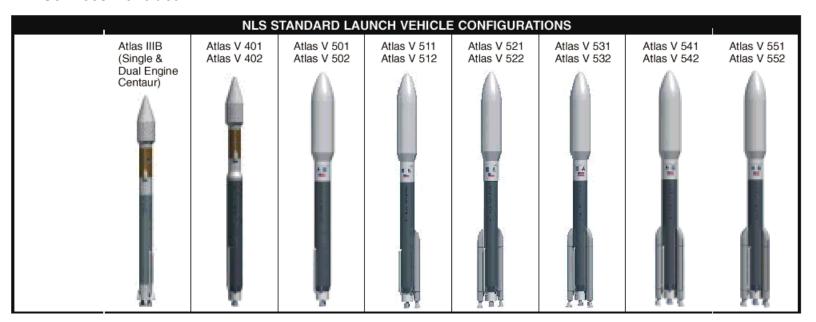


Lockheed Martin Commercial Launch Services

John F. Kennedy Space Center

Launch Services Program

 The LMCLS Atlas III and Atlas V family of launch vehicles are provided by the NASA Launch Services Contract





Orbital Sciences Corporation

Launch Services Program

Pegasus XL





Taurus





Updated Launch Services Cost Figures

Launch Services Program

Launch Service Costs (\$ in Millions) – Feb 2007 Launch

LAUNCH SERVICE	FY'04	FY'05	FY '06	FY '07	TOTAL COST
SELVS-KSC Pegasus (VAFB)	1	13	6	9	29
SELVS-KSC Pegasus (East Coast)	1	14	6	10	31
SELVS-KSC Pegasus (Equatorial)	1	15	6	11	33
SELVS-KSC Taurus (VAFB)	1	22	9	14	46
SELVS-KSC Taurus (CCAS)	1	22	9	15	47



Updated Launch Services Cost Figures

Launch Services Program

Launch Service Costs (\$ in Millions) – Feb 2008 Launch

LAUNCH SERVICE	FY'05	FY'06	FY '07	FY '08	TOTAL COST
SELVS-KSC Pegasus (VAFB)	1	14	6	9	30
SELVS-KSC Pegasus (East Coast)	1	14	6	11	32
SELVS-KSC Pegasus (Equatorial)	1	15	6	12	34
SELVS-KSC Taurus (VAFB)	1	22	9	15	47
SELVS-KSC Taurus (CCAS)	1	22	9	16	48



ELV Advance Mission Planning Support

Launch Services Program

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